

WHAT IS CLAIMED IS:

1. Isolated human serotonin receptor protein St-B17 comprising the amino acid sequence which encodes the third and sixth transmembrane domains of SEQ ID NO: 13.
- 5 2. A recombinant construct comprising a polynucleotide encoding the human serotonin receptor protein St-B17 of Claim 1, operably linked to a heterologous promoter.
3. The recombinant construct of Claim 2, wherein said polynucleotide comprises the nucleic acid sequence of SEQ ID NO:12 which
10 encodes said third and and sixth transmembrane domains.
4. An isolated polynucleotide encoding the human serotonin receptor protein St-B17 of Claim 1.
5. The isolated polynucleotide of Claim 4, wherein said polynucleotide comprises the nucleic acid sequence of SEQ ID NO:12 which
15 encodes said third and sixth transmembrane domains.
6. A mammalian cell line in continuous culture expressing the human serotonin receptor protein St-B17 of Claim 1.
7. The mammalian cell line of Claim 6, wherein said serotonin receptor protein St-B17 is encoded by a polynucleotide comprising the nucleic
20 acid sequence of SEQ ID NO:12 which encodes said third and sixth transmembrane domains.
8. Isolated human serotonin receptor protein St-B17 of Claim 1 expressed by a polynucleotide comprising the nucleic acid sequence of SEQ ID NO:12 which encodes said third and sixth transmembrane domains.
- 25 9. Isolated rat serotonin receptor protein St-B17 comprising the amino acid sequence which encodes the third and sixth transmembrane domains of SEQ ID NO:8.
10. A recombinant construct comprising a polynucleotide encoding the rat serotonin receptor protein St-B17 of Claim 9, operably linked to a
30 heterologous promoter.

11. The recombinant construct of Claim 10, wherein said polynucleotide comprises the nucleic acid sequence of SEQ ID NO:7 which encodes said third and sixth transmembrane domains.

12. An isolated polynucleotide encoding the rat serotonin receptor protein St-B17 of Claim 9.

13. The isolated polynucleotide of Claim 12, wherein said polynucleotide comprises the nucleic acid sequence of SEQ ID NO:7 which encodes said third and sixth transmembrane domains.

14. A mammalian cell line in continuous culture expressing the rat serotonin receptor protein St-B17 of Claim 9.

15. The mammalian cell line of Claim 14, wherein said serotonin receptor protein St-B17 is encoded by a polynucleotide comprising the nucleic acid sequence of SEQ ID NO:7 which encodes said third and sixth transmembrane domains.

16. Isolated rat serotonin receptor protein St-B17 of Claim 9 expressed by a polynucleotide comprising the nucleic acid sequence of SEQ ID NO:7 which encodes said third and sixth transmembrane domains.

PATENT

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